CIVIL TECH LABS

TEST ON SDBC MIX GRADE - 2

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Project	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency	Sri. K. Ravikumar.
Date of Testing	26/08/2014
Reference	**MORTH Table 500-15, SDBC Grade-2**

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	100	**Satisfies Requirements**
9.5	90-100	98.3	
4.75	35-51	44.2	
2.36	24-39	32.4	
1.18	15-30	18.8	
0.3	9-19	16.6	
0.075	3-8	5.8	

Note:

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4.The results are based on the test conducted on samples supplied by the client.

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ಯಲಹಂಕ ನಗರ ಉಪವಿಭಾಗ
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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

TEST ON SDBC MIX GRADE - 2

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Project	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency	Sri. K. Ravikumar.
Date of Testing	26/08/2014
Reference	**MORTH Table 500-15. SDBC Grade-2**

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	100	**Satisfies Requirements**
9.5	90-100	98.6	
4.75	35-51	45.2	
2.36	24-39	33.4	
1.18	15-30	20.1	
0.3	9-19	16.3	
0.075	3-8	6.1	

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Project	Maintenance of roads, culverts, drains in ward no. 04.
Agency	Sri. K. Ravikumar
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959[Reaffirmed 2004]

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-work	24/02/2014	28/03/2014	28	8.20	500	22.22	21.99
2					8.19	495	22.00	
3					8.18	[illegible]	21.80	

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RATE OF SPREAD OF TACK COAT

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Maintenanace of roads, culverts, drains for emergency repairs in ward no. 04.
Name of Agency	Sri. K. Ravikumar,
Date of Testing	21/08/2014

Test No.	Area Tested	Rate of spread Kg/m²	As Per MORTH Table 500-2	Remarks
1	Rate of Spread Test conducted for every 500 m² from area 0 to 1380 m²	0.21	0.2 to 0.25 Kg/m²	Satisfactory
2		0.22		Satisfactory
3		0.23		Satisfactory

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TEST REPORT ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency Name	Sri. K. Ravikumar.

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
40mm Down Graded	14/02/2014	2.66	0.28	80	100	100	Satisfies The Requirements
				40	97	95-100	
				20	57	30-70	
				10	28	10-35	
				4.75	4	0-5	

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TEST REPORT ON REINFORCEMENT STEEL BARS 12mm

Name of the Client	AEE, Yelahanka New Town Sub Division, UDMP
Name of Work	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency Name	Sri. K. Ravikumar.
Date of Test	14/02/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

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TEST REPORT ON REINFORCEMENT STEEL BARS 10mm

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency Name	Sri. K. Ravikumar.
Date of Testing	14/02/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.619	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	420	415	Satisfactory
6	U T S (N/Sq.mm)	525	485	Satisfactory

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TEST REPORT ON CEMENT

Name of the Client	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04
Agency Name	Sri. K. Ravikumar.

Tests on Cement	Test Date	Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112 1989	Remarks
			IS Code	Method	Value	Unit		
	14/02/2014	Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	46	min	Not Less Than 30 Minutes	Satisfies Requirement
		Final Setting Time	IS-4031 (Part-5) 1988	VICAT	498	min	Not More Than 600 Minutes	Satisfies Requirement
		Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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CIVILTECH LABS

TEST REPORT ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE. Yelahanka New Town Sub Division, BBMP
Name of Work	Maintenance of roads, culverts, drains for emergency repairs in ward No. 04.
Agency Name	Sri. K. Ravikumar.

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
20mm Down Graded	14/02/2014	2.61	0.31	40	100	100	Satisfies The Requirement
				20	99	95-100	
				10	45	25-55	
				4.75	9	0-10	

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